

3 ~~11~~<sup>2</sup>. The magneto-optical device of Claim ~~10~~<sup>2</sup>, wherein said side walls are perpendicular to a surface of said substrate.

4 ~~12~~<sup>1</sup>. The magneto-optical device of Claim ~~9~~<sup>1</sup>, further comprising a reflecting layer on a first face of said substrate.

5 ~~13~~<sup>4</sup>. The magneto-optical device of Claim ~~12~~<sup>4</sup>, further comprising an anti-reflecting layer on a second face of said substrate.

6 ~~14~~<sup>1</sup>. The magneto-optical device of Claim ~~9~~<sup>1</sup>, wherein said ferromagnetic layers are electrically conductive.

7 ~~15~~<sup>6</sup>. The magneto-optical device of Claim ~~14~~<sup>6</sup>, wherein said ferromagnetic layers comprise particles of a member of the group consisting of Fe, Co, Ni, FeCo alloys, FeNi alloys and CoNi alloys.

8 ~~16~~<sup>7</sup>. The magneto-optical device of Claim ~~15~~<sup>7</sup>, wherein said ferromagnetic layers have an average diameter in an inclusive range of 2 through 20 nanometers.

9 ~~17~~<sup>1</sup>. The magneto-optical device of Claim ~~9~~<sup>1</sup>, further comprising a layer of non-magnetic semiconducting material or metal in contact with said ferromagnetic layers and having a same thickness as the thickness of the ferromagnetic layers and a width in an inclusive range of 5 through 10 nanometers.

10 ~~18~~<sup>2</sup>. The magneto-optical device of Claim ~~10~~<sup>2</sup>, further comprising a reflecting layer on a first face of said substrate.

11 ~~19~~<sup>10</sup>. The magneto-optical device of Claim ~~18~~<sup>10</sup>, further comprising an anti-reflecting layer on a second face of said substrate.

12 ~~20~~<sup>2</sup>. The magneto-optical device of Claim ~~10~~<sup>2</sup>, wherein said ferromagnetic layers are electrically conductive.

13 <sup>12</sup>/~~21~~. The magneto-optical device of Claim ~~20~~, wherein said ferromagnetic layers comprise particles of a member of the group consisting of Fe, Co, Ni, FeCo alloys, FeNi alloys and CoNi alloys.

14 <sup>13</sup>/~~22~~. The magneto-optical device of Claim ~~21~~, wherein said ferromagnetic layers have an average diameter in an inclusive range of 2 through 20 nanometers.

15 <sup>2</sup>/~~23~~. The magneto-optical device of Claim ~~10~~, further comprising a layer of non-magnetic semiconducting material or metal in contact with said ferromagnetic layers and having a same thickness as the thickness of the ferromagnetic layers and a width in an inclusive range of 5 through 10 nanometers.

16 <sup>3</sup>/~~24~~. The magneto-optical device of Claim ~~11~~, further comprising a reflecting layer on a first face of said substrate.

17 <sup>16</sup>/~~25~~. The magneto-optical device of Claim ~~24~~, further comprising an anti-reflecting layer on a second face of said substrate.

18 <sup>3</sup>/~~26~~. The magneto-optical device of Claim ~~11~~, wherein said ferromagnetic layers are electrically conductive.

19 <sup>18</sup>/~~27~~. The magneto-optical device of Claim ~~26~~, wherein said ferromagnetic layers comprise particles of a member of the group consisting of Fe, Co, Ni, FeCo alloys, FeNi alloys and CoNi alloys.

20 <sup>19</sup>/~~28~~. The magneto-optical device of Claim ~~27~~, wherein said ferromagnetic layers have an average diameter in an inclusive range of 2 through 20 nanometers.

21 <sup>3</sup>/~~29~~. The magneto-optical device of Claim ~~11~~, further comprising a layer of non-magnetic semiconducting material or metal in contact with said ferromagnetic layers and